CONTENTS

Volume 15 Number 1

1991

CONTENTS

	1	In memoriam: Robin Caird Watson
John S. DaPonte and Porter Sherman	3	Classification of ultrasonic image texture by statisti- cal discriminant analysis and neural networks
Ching-Fai Fung and Yiu-Wah Fan	11	A simple computerized tomography adapter for conventional stereotactic frame
James M. Mountz and Mark W. Wilson	17	Brain structure localization in positron emission tomography: Comparison of magnetic resonance imaging and a stereotactic method
Orest B. Boyko and David J. Rippe	23	CT and pathologic correlation of Tc-99m medronate splenic uptake in metastatic breast carcinoma
Lawrence Yao and James W. Sherwood	27	Ex-vivo MR imaging of the cruciate ligaments
David S. Mendelson, Sarah Apter, Harold A. Mitty, Ellen S. Gendal, Cynthia L. Janus, M. Arisan Ergin, Steven L. Lansman and Randall Griepp	31	Residual dissection of the thoracic aorta after repair: MRI-angiographic correlation
Ronald A. Bloom, John M. Gomori, Scott I. Fields and Eli Katz	37	Abdominal wall lipoma — CT and MRI appearance
P. M. T. Weston, R. Travis and H. H. Thompson	41	Giant cystic leiomyoma of the sigmoid colon
Leon A. Weisburg, Debra Elliott and Morteza Shamsnia	43	Intraventricular hemorrhage in adults: Clinical-computed tomographic correlations
Dorrit W. Nitzan, Yitzhak Marmary, Scott I. Fields and Arie Shteyer	53	The diagnostic value of computed tomography in temporomandibular joint synovial chondromatosis
Ay-Ming Wang, Thomas K. Barriger and David P. Wesolowski	57	Intracranial gumma mimicking a tuber cinereum tumor
Vung Duy Nguyen	61	A rare cause of splenic infarct and fleeting pulmonary infiltrates: Polyarteritis nodosa
Diane R. Horowitz, Marie C. Perusek and Vung D. Nguyen	67	A rare cause of laryngeal distress: Chondrocarcoma of the larynx
	I	New Patents
	VII	Software Survey Section

1991

CONTENTS

René W. Lutz, Thierry Pun and Christian Pellegrini	73	Colour displays and look-up tables: Real time modification of digital images
Reinhold Hüller, Walter Päffgen, Ewald Glossner, Peter Hummel and Volker Kachel	85	A PC-AT based video device for flow cytometri- cally triggered cell imaging in flow
Takao Kodama, Yuji Numaguchi, Fouad E. Gellad and Norihiro Sadato	93	Magnetic resonance imaging of a high cervical intradural lipoma
Susan Zweizig, John B. Schlaerth and William D. Boswell, Jr.	97	Computed tomography of lymphogranuloma venereum mimicking cervical cancer
Bruno Kastler, Philippe Germain, Gérald Roul, André Constantinesco, Jean Louis Dietemmen, André Sacrez and Auguste Wackenheim	101	Detection and quantification of recent myocardial infarction: Diagnostic value of multiecho multislice spin echo imaging
Shin-ichiro Masunaga, Mitsuyuki Abe, Toshio Imura, Motokazu Asano, Shunsuke Minami and Ichiro Fujisawa	113	Hepatic abscess secondary to a fishbone penetrating the gastric wall: CT demonstration
David M. Furie, Uresh Patel, Arfa Khan, Carl F. Ilardi, Lawrence A. Gordon and Peter G. Herman	117	Mesenteric desmoid of the appendix—A case report
Jun Niwa, Tukasa Kubota, Tohru Okuyama, and Hiroki Hirai	121	Large-sized brain metastasis of lung cancer without perifocal edema: Case report
Hector W. Ho, Eric E. Awwad, David S. Martin and Gary E. Kraus	125	Olfactory neuroblastoma mimicking primary intra- cranial neoplasm
Norihiro Sadato, Yuji Numaguchi, Fred H. Geisler and Donald A. Kristt	129	Extradural epidermoid cyst occluding the transverse sinus: A case report
	I	New Patents
	VII	Software Survey Section Radiotherapy Analysis and Management System

1991

CONTENTS

SPECIAL ISSUE: PICTURE ARCHIVING AND COMMUNICATION SYSTEMS

133	Editorial	
135	Automatic acquisition interfaces for computed radiography, CT, MR, US, and laser scanner	
147	PACS workstation design	
157	HIS, RIS, and PACS	
161	Picture archiving and communication system (PACS) networking: Three implementation strategies	
171	PACS database architecture and design	
177	Systems integration for PACS	
183	PACS clinical experience at Georgetown University	
191	Clinical experience — 16 months of HU-PACS	
197	Clinical experience with PACS at the University of Pennsylvania	
201	PACS — clinical experience at UCLA	
I	New Patents	
VII	Software Survey Section	
	135 147 157 161 171 177 183 191 197 201 I	

1991

CONTENTS

A SPECIAL ISSUE ON NMR IMAGE PROCESSING AND PATTERN RECOGNITION

Ching-Chung Li	205	Editorial
M. B. Merickel, C. S. Carman, J. R. Brookeman and C. R. Ayers	207	Image Analysis and Quantification of Atherosclerosis Using MRI
Michael W. Vannier, Thomas K. Pilgram, Christopher M. Speidel, Lynette R. Neumann, Douglas L. Rickman and Larry D. Schertz	217	Validation of Magnetic Resonance Imaging (MRI) Multispectral Tissue Classification
I. R. Young and A. S. Hall	225	Observations on the Choice of Reconstruction Matrix in Magnetic Resonance Imaging
Hidetomo Suzuki and Jun-ichiro Toriwaki	233	Automatic Segmentation of Head MRI Images by Knowledge Guided Thresholding
Michiyoshi Kuwahara and Shigeru Eiho	241	3-D Heart Image Reconstructed from MRI Data
Maria Magnusson, Reiner Lenz and Per-Erik Danielsson	247	Evaluation of Methods for Shaded Surface Display of CT Volumes
Gabor T. Herman	257	The Tracking of Boundaries in Multidimensional Medical Images
Shiuh-Yung Chen, Wei-Chung Lin and Chin-Tu Chen	265	Automated Surface Interpolation Technique for 3-D Object Reconstruction from Serial Cross Sections
C. C. Li, M. Gokmen, A. D. Hirschman and Y. Wang	277	Information Preserving Image Compression for Archiving NMR Images
	I	New Patents
	V	Software Survey Section

1991

CONTENTS

Arthur W. Toga and Bradley A. Payne	285	Animating the 3D Structure and Function of Brain	
Adel A. Mustafa, Jan H. Peregrin, M. Simo, Mahmoud S. Adili and Sanaa A. Saleh	293	A Densitometric Method for Quantitative Analysi of the Left Ventricle Performance Using I.V. Digital Subtraction Angiography	
A. Bartolini, B. Gasparetto, C. Albano, G. Ajmar, A. Primavera and F. Roncallo	303	Assessment of ^{99m} Tc-HM-PAO Parameters with SPECT for Improved Evaluation of Blood Flow in Cerebral Lesions	
Barrie R. Condon	311	Multi-Modality Image Combination: Five Techniques for Simultaneous MR-SPECT Display	
Jonathan Shapiro, Andrew Gallant, Richard J. Wechsler and Robert M. Steiner	319	Thymic Cyst Secondary to Cervical Irradiation: A Complication of Treated Laryngeal Cancer	
J. Randy Jinkins	323	The MR Equivalents of Cerebral Hemispheric Disconnection: A Telencephalic Commissuropathy	
Eric Spickler, Robert Lufkin, Louis Teresi, Lee Chiu, Ulrich Batzdorf, Robert Rand and Donald Becker	333	MR of Hemorrhagic Acoustic Neuromas	
Ann H. Adams, James R. Brookeman and Michael B. Merickel	339	Breast Lesion Discrimination Using Statistical Analysis and Shape Measures on Magnetic Resonance Imagery	
Alexander S. Michael and Milton L. Paige	351	Increased Signal Intensity on T1-Weighted MR Image of Physiologic Intracranial Calcifications	
Leon A. Weisberg, Morteza Shamsnia and Debra Elliott	355	Nontraumatic Posterior Temporal Lobe Hemorrhage: Clinical Computed Tomographic Correlations	
W. Mitchell Wilder, J. Powell Williams and Saunders L. Hupp	361	Computerized Tomographic Findings in Two Cases of Congenital Fibrosis Syndrome	
Bruce J. Lehrman, David P. Mayer, Otto F. Tidwell and Michael L. Brooks	365	Computed Tomography of Odontogenic Keratocysts	

369	Abdominal Computed Tomography in Lupus Mesenteric Arteritis	
373	Pathologic Vertebral Compression in Spinal Malignancy Secondary to Intervertebral Disk Expansion	
I	New Patents	
V	Software Survey Section	
	1991	
COI	NTENTS	
379	Computed Tomography in Spinal Tuberculosis	
389	Functional Circulation Time Images in the Diagnosis of Cerebral Lesions by Angio CT	
397	Unusual Feature of Soft-Tissue Calcification in Chronic Renal Failure: Tumoral Calcification	
403	Low-Osmolality Contrast Media: Dosage Comparison of Ioversol and Iohexol for Cranial Computed Tomography	
407	Aortic Dissection Presenting as Acute Pancreatitis: CT Diagnosis	
	373 I V COI 379 389 397 403	

Karen B. Wagner, Arfa Kahn, Rabia

Takahashi, Yasuyuki Yamashita, Yuji

Qi-Yong Gong, Guo-Liang Zheng and

Harold L. Mast, David H. Gordon

Mir and Peter G. Herman

Kazuhiro Yoshizumi

and Alan M. Kantor

Hong-Yan Zhu

Antonio Lona Soto, Mutsumasa

Sakamoto, Jintetsu Shinzato and

411 Thymic Carcinoma Arising from Long Standing

415 MRI Findings of Hypothalamic Hamartoma: Report

of Five Cases and Review of the Literature

423 MRI Differentiation of Recurrent Nasopharyngeal

Angiography: Algorithmic Approach Utilizing CT

Carcinoma from Postradiation Fibrosis

431 Pitfalls in Diagnosis of Aortic Dissection by

and MRI

Thymoma and Presenting with Pituitary Metastases

Philip E.	Cranston	and Anne	Halsell
-----------	----------	----------	---------

Futoshi Mihara, Kundan L. Gupta, Sadayuki Murayama, Nam Lee and Barrett G. Haik 441 Inferior Vena Cava Interruption with Renal Vein Collar Continuation: CT and MRI Appearance

445 MR Imaging of Orbital Mass Lesions with Contrast Agent: A Preliminary Report

Futoshi Mihara, Sadayuki Murayama, Kundan L. Gupta, Nam Lee and Arvin E. Robinson

451 Peripheral Finding in MR Using Surface Coil

I Contents/Author Index to Volume 15

XIII New Patents

XIX Software Survey Section

